

 EXTENT OF CONTAMINATED LAND LEGAL NOTICE  
 APPROXIMATE EXTENT OF WASTE

**Legend**

 Site Boundary



  
 DLA Environmental Services  
 A Pacific Environment company  
 Sydney Office Phone (02) 9476 1765 Fax (02) 9476 1557  
 Maitland Office Phone (02) 4933 0001

Title Extent of Golf Driving Range Landfill and Site Location			
Client ECOVE	Project No. DL 3620	Figure No 5	Date 2/5/2016
	Scale As Shown	Compiled SB	Revision R00

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**APPENDIX A – UNEXPECTED FINDINGS PROTOCOL**

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Michael Azar  
ECOVE Group  
Cnr Australia Avenue and Herb Elliott Avenue  
Sydney Olympic Park  
NSW 2127

Dear Sir,

**Re: Unexpected Finds Protocol (UFP) – Site 9 – Corner Sarah Durack Ave and Olympic Boulevard, Sydney Olympic Park, NSW, 2015.**

DLA Environmental Services (DLA) was commissioned by Michael Azar of ECOVE Group to prepare an Unexpected Finds Protocol (UFP) for the property identified as:

Site 9 – Corner Sarah Durack Ave and Olympic Boulevard, Sydney Olympic Park (the Site)

This UFP has been developed as part of the construction planning for implementation during Site works primarily associated with excavation and civil activities. It has been prepared to ensure appropriate management of natural soils / fill which may contain undefined levels of landfill waste, leachate, landfill gas and asbestos contamination should they be encountered during Site works.

Due to the history of the Site (both past and present) and discoveries of landfill waste, leachate and landfill gas and asbestos during previous environmental investigations, there is potential for landfill waste, leachate, landfill gas and asbestos materials to be present in soils. These materials may require additional assessment or management. It is imperative that the potential for such material to impact Site workers and the remainder of the Site is minimised during remedial and construction works.

The area of investigation is known to have received waste and fill material for landfill. The Site is located on the boundary of the landfill and encompasses both fill material and natural soils. It is thought prudent to implement a UFP to cover all possible potential contamination scenarios. Potential contamination on the Site which may exist outside the scope of the past environmental investigations will be managed through the following UFP.

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## 1.0 TYPICAL FEATURES OF 'UNEXPECTED FINDS'

The main features to look for are:

- Material containing anthropogenic artefacts such as rubble, plastics, metal etc.;
- Material that is noticeably stained in colour;
- Asbestos or suspected asbestos containing material;
- Material with fibres visible;
- Leachate; and
- Landfill Gas odours;

## 2.0 IMPLEMENTATION OF THE PROTOCOL

### 2.1 General

Prior to the commencement of any excavation or construction works onsite, an occupational health and safety induction should be attended by all Site staff. The aim and importance of the UFP and how it is to be implemented should be discussed at this time. Responsibility for its implementation will be assigned to the Principal Contractor.

Monitoring of environmental issues will be undertaken on a daily basis. If an unexpected find is revealed during Site works, the following protocol is to be followed.

### 2.2 Implementation Process

1. Cease disturbance of the affected portion of the site and evacuate the immediate area.
2. Contact the Principal Contractor and the Contractors Environmental Representative (CER).
3. Principal Contractor and CER to conduct an assessment of the location and extent of the unexpected find.

4. High risk areas should be isolated and secured against unintended access.
5. Temporary encapsulation (sealing) of the high risk area to ensure no airborne spread of contamination occurs may be appropriate. This may involve clean soil, plastic sheeting, etc.
6. Dust should be prevented by wetting the soil and drainage controls should be arranged where there is a potential for runoff to occur (runoff should be minimised).
7. Warning signs should be placed in the vicinity.
8. If the Principal Contractor and CER considers that the material warrants further investigation, the area is to be barricaded to provide an exclusion zone.
9. If necessary, environmental controls should be established to minimise the potential for migration of contaminants from the impacted area.
10. Principal Contractor to complete UFP form (refer to **Section 4.0**) and issue to all relevant stakeholders.
11. Further visual assessment and sample collection and analysis undertaken by a qualified environmental consultant. If necessary, samples will be sent to a NATA registered laboratory.
12. Evaluation of analytical data with respect to specific health screening levels to be undertaken. Contaminated soil incident report amended with final classification of soils, including whether the soils are suitable for the proposed land use, need to be remediated or disposed of offsite to a suitably licensed facility. If soils are suitable to remain on-site and/or the area is found to be clean, a work instruction will be provided by the CER to this effect. A waste classification letter must be provided prior to any offsite disposal.
13. If the material is subsequently found to contain asbestos, an appropriately licensed contractor will be employed to remove it.
14. Affected areas will be reopened for earthworks following a clearance of the location and issuance of a report by CER.

## 2.3 Notes

1. Any suspected asbestos containing should be left in place and not disturbed. The CER will organise appropriate environmental professionals for further investigation purposes.
2. It is essential that material of differing compositions not be mixed.
3. All sampling for validation, waste classification or characterisation purposes will be carried out in accordance with the following documents:
  - *Contaminated Sites: Sampling Design Guidelines* (NSW EPA, 1995);
  - *National Environment Protection (Assessment of Site Contamination) Amendment Measure 2013 (No.1)* (NEPC, 2013);
  - *Waste Classification Guidelines* (NSW EPA, 2014).
4. Any unexpected finds encountered should be listed on a UFP register, which should include the action taken and the status of the unexpected find. A suitable register is included in **Section 5.0**.
5. Once an unexpected find has been identified and a UFP form filled in the Principal Contractor and CER should liaise with the client as to the appropriate means of managing the situation. This should include discussions around the handling, treatment and disposal of material, OH&S considerations and how the affected area will be validated and reopened for works.
6. Prior to closing out an unexpected find it will be important to ensure the appropriate documentation is obtained, such as: photographs, the UFP form, waste classification letter(s) and a validation report or letter.
7. A UFP form should be completed on each day of the remedial works as part of the daily site records. This will ensure that the process is being undertaken even if no unexpected finds are encountered. The form should include the name, company and the position of the person undertaking the field observations.

### 3.0 UNEXPECTED FINDS PROTOCOL FORM

*To be completed by the Site Controller/Environmental Representative*

**SITE:** \_\_\_\_\_

**PERSONNEL ON-SITE:** \_\_\_\_\_

**DATE:** \_\_\_\_\_

**DAILY SUMMARY:**

1. Suspect material encountered during daily activities: YES  NO   
(if YES, compete 2 to 5)

2. CER contacted: YES  NO

3. UFP Reference Number \_\_\_\_\_  
(label occurrences sequentially 1, 2, 3, etc.).

**DESCRIPTION OF MATERIAL ENCOUNTERED:**

4. Asbestos or suspected ACM present: YES  NO

5. Brief written description of material:

6. Material isolated: YES  NO

7. Location of contaminated material (incl. field sketch/map if required):

8. Photographs taken: YES  NO

**NAME:** \_\_\_\_\_

**SIGNATURE:** \_\_\_\_\_

## 4.0 UNEXPECTED FINDS REGISTER

UNEXPECTED FINDS REGISTER						
UFP No.	Date Found	Suspect Material	Description	Recorded on UFP Form	Action Taken	Status
				YES <input type="checkbox"/> NO <input type="checkbox"/>		
				YES <input type="checkbox"/> NO <input type="checkbox"/>		
				YES <input type="checkbox"/> NO <input type="checkbox"/>		
				YES <input type="checkbox"/> NO <input type="checkbox"/>		
				YES <input type="checkbox"/> NO <input type="checkbox"/>		
				YES <input type="checkbox"/> NO <input type="checkbox"/>		

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**APPENDIX B – GROUNDWATER WORKS DATABASE SEARCH**

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# NSW Office of Water

## Work Summary

**GW111343**
**Licence:** 10BL604349

**Licence Status:** ACTIVE

**Authorised Purpose(s):** MONITORING BORE  
**Intended Purpose(s):** MONITORING BORE

**Work Type:** Bore  
**Work Status:** Equipped  
**Construct.Method:** Auger - Solid Flight  
**Owner Type:** Other Govt

**Commenced Date:**  
**Completion Date:** 06/11/2010

**Final Depth:** 8.00 m  
**Drilled Depth:** 8.00 m

**Contractor Name:**
**Driller:** Daniel Giles Fox

**Assistant Driller:** David Mangnall

**Property:** SYDNEY WATER 4 HERB  
 ELLIOTT AVENUE HOMEBUSH  
 BAY 2127 NSW

**Standing Water Level:**
**GWMA:**  
**GW Zone:**
**Salinity:**  
**Yield:**

### Site Details

**Site Chosen By:**

<b>County</b>	<b>Parish</b>	<b>Cadastre</b>
Form A: CUMBE	CUMBE.13	52//747909
<b>Licensed:</b>		

**Region:** 10 - Sydney South Coast

**CMA Map:**
**River Basin:** - Unknown  
**Area/District:**
**Grid Zone:**
**Scale:**
**Elevation:** 0.00 m (A.H.D.)  
**Elevation Unknown**  
**Source:**
**Northing:** 6253040.0  
**Easting:** 321540.0

**Latitude:** 33°50'52.3"S  
**Longitude:** 151°04'15.9"E

**GS Map:** -

**MGA Zone:** 0

**Coordinate Unknown**  
**Source:**

### Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1		Hole	Hole	0.00	8.00	100			Auger - Solid Flight
1		Annulus	Crushed Aggregate	3.50	8.00				Graded
1	1	Casing	Pvc Class 12	0.00	5.00	50	40		Seated on Bottom, Screwed
1	1	Opening	Slots - Horizontal	5.00	8.00	50		1	Casing - Machine Slotted, PVC Class 12, Screwed, A: 1.00mm

### Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
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## Geologists Log Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
0.00	0.20	0.20	BITUMEN	Fill	
0.20	0.40	0.20	GRAVELLY ROAD BASE,GREY/BROWN	Fill	
0.40	0.60	0.20	CLAY BROWN,GRAVELS MOIST	Clay	
0.60	8.00	7.40	SHALE,BROWN,HARD,DRY	Shale	

## Remarks

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\*\*\* End of GW111343 \*\*\*

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# NSW Office of Water

## Work Summary

### GW102553

Licence: 10BL157703

Licence Status: ACTIVE

Authorised MONITORING BORE  
 Purpose(s):  
 Intended Purpose(s): MONITORING BORE

Work Type: Bore

Work Status:

Construct.Method:

Owner Type:

Commenced Date:

Completion Date: 01/01/1996

Final Depth: 4.00 m

Drilled Depth:

Contractor Name:

Driller:

Assistant Driller:

Property: N/A  
 GWMA: -  
 GW Zone: -

Standing Water Level: 1.830  
 Salinity:  
 Yield:

## Site Details

Site Chosen By:

County Parish Cadastre  
 Form A:  
 Licensed: CUMBERLAND CONCORD Whole Lot //

Region: 10 - Sydney South Coast

CMA Map:

River Basin: - Unknown

Grid Zone:

Scale:

Area/District:

Elevation: 0.00 m (A.H.D.)

Northing: 6253267.0

Latitude: 33°50'45.3"S

Elevation Unknown

Easting: 322210.0

Longitude: 151°04'42.2"E

Source:

GS Map: -

MGA Zone: 0

Coordinate Unknown  
 Source:

## Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1		Hole	Hole	0.00	4.00	0			Unknown
1	1	Casing	P.V.C.	0.00	0.00	50			

## Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
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## Geologists Log

## Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
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## Remarks

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01/01/1996: Form A Remarks:  
DATA FROM AG APPLICATION ONLY

**\*\*\* End of GW102553 \*\*\***

Warning To Clients: This raw data has been supplied to the NSW Office of Water by drillers, licensees and other sources. The NOW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

# NSW Office of Water

## Work Summary

**GW102555**
**Licence:** 10BL157703

**Licence Status:** ACTIVE

**Authorised Purpose(s):** MONITORING BORE  
**Intended Purpose(s):** MONITORING BORE

**Work Type:** Bore

**Work Status:**
**Construct.Method:**
**Owner Type:**
**Commenced Date:**
**Completion Date:** 01/01/1996

**Final Depth:** 4.00 m

**Drilled Depth:**
**Contractor Name:** Macquarie Drilling

**Driller:**
**Assistant Driller:**

**Property:** N/A  
**GWMA:** -  
**GW Zone:** -

**Standing Water Level:** 1.830  
**Salinity:**  
**Yield:**

### Site Details

**Site Chosen By:**

**County:** CUMBERLAND  
**Parish:** CONCORD  
**Cadastre:** Whole Lot //

**Region:** 10 - Sydney South Coast

**CMA Map:**
**River Basin:** - Unknown

**Grid Zone:**
**Scale:**
**Area/District:**
**Elevation:** 0.00 m (A.H.D.)

**Northing:** 6253143.0

**Latitude:** 33°50'49.3"S

**Elevation:** Unknown

**Easting:** 322187.0

**Longitude:** 151°04'41.2"E

**Source:**
**GS Map:** -

**MGA Zone:** 0

**Coordinate Source:** Unknown

### Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1		Hole	Hole	0.00	4.00	0			Unknown
1	1	Casing	P.V.C.	0.00	0.00	50			

### Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
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### Geologists Log

### Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
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## Remarks

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01/01/1996: Form A Remarks:  
DATA FROM AG APPLICATION ONLY

**\*\*\* End of GW102555 \*\*\***

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# NSW Office of Water

## Work Summary

**GW102556**
**Licence:** 10BL157703

**Licence Status:** ACTIVE

**Authorised Purpose(s):** MONITORING BORE  
**Intended Purpose(s):** MONITORING BORE

**Work Type:** Bore

**Work Status:**
**Construct.Method:**
**Owner Type:**
**Commenced Date:**
**Completion Date:** 01/01/1996

**Final Depth:** 4.00 m

**Drilled Depth:**
**Contractor Name:** Macquarie Drilling

**Driller:**
**Assistant Driller:**
**Property:** N/A  
**GWMA:** -  
**GW Zone:** -

**Standing Water Level:** 1.830  
**Salinity:**  
**Yield:**

### Site Details

**Site Chosen By:**

County	Parish	Cadastre
<b>Form A:</b> <b>Licensed:</b> CUMBERLAND	CONCORD	Whole Lot //

**Region:** 10 - Sydney South Coast

**CMA Map:**
**River Basin:** - Unknown

**Grid Zone:**
**Scale:**
**Area/District:**
**Elevation:** 0.00 m (A.H.D.)

**Northing:** 6252900.0

**Latitude:** 33°50'57.3"S

**Elevation:** Unknown

**Easting:** 322371.0

**Longitude:** 151°04'48.2"E

**Source:**
**GS Map:** -

**MGA Zone:** 0

**Coordinate Source:** Unknown

### Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1		Hole	Hole	0.00	4.00	0			Unknown
1	1	Casing	P.V.C.	0.00	0.00	50			

### Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
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### Geologists Log

### Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
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## Remarks

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01/01/1996: Form A Remarks:  
DATA FROM AG APPLICATION ONLY

**\*\*\* End of GW102556 \*\*\***

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# NSW Office of Water

## Work Summary

### GW102557

Licence: 10BL157703

Licence Status: ACTIVE

Authorised MONITORING BORE  
 Purpose(s):  
 Intended Purpose(s): MONITORING BORE

Work Type: Bore

Work Status:

Construct.Method:

Owner Type:

Commenced Date:

Completion Date: 01/01/1996

Final Depth: 4.00 m

Drilled Depth:

Contractor Name: Macquarie Drilling

Driller:

Assistant Driller:

Property: N/A  
 GWMA: -  
 GW Zone: -

Standing Water Level:  
 Salinity:  
 Yield:

### Site Details

Site Chosen By:

County	Parish	Cadastre
Form A: Licensed: CUMBERLAND	CONCORD	Whole Lot //

Region: 10 - Sydney South Coast

CMA Map:

River Basin: - Unknown

Grid Zone:

Scale:

Area/District:

Elevation: 0.00 m (A.H.D.)

Northing: 6252778.0

Latitude: 33°51'01.3"S

Elevation Unknown

Easting: 322425.0

Longitude: 151°04'50.2"E

Source:

GS Map: -

MGA Zone: 0

Coordinate Unknown  
 Source:

### Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1		Hole	Hole	0.00	4.00	0			Unknown
1	1	Casing	P.V.C.	0.00	0.00	50			

### Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
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### Geologists Log

### Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
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## Remarks

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01/01/1996: Form A Remarks:  
DATA FROM AG APPLICATION ONLY

**\*\*\* End of GW102557 \*\*\***

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# NSW Office of Water

## Work Summary

**GW102558**
**Licence:** 10BL157703

**Licence Status:** ACTIVE

**Authorised Purpose(s):** MONITORING BORE  
**Intended Purpose(s):** MONITORING BORE

**Work Type:** Bore

**Work Status:**
**Construct.Method:**
**Owner Type:**
**Commenced Date:**
**Completion Date:** 01/01/1996

**Final Depth:** 4.00 m

**Drilled Depth:**
**Contractor Name:** Macquarie Drilling

**Driller:**
**Assistant Driller:**
**Property:** N/A  
**GWMA:** -  
**GW Zone:** -

**Standing Water Level:** 1.830  
**Salinity:**  
**Yield:**

### Site Details

**Site Chosen By:**

County	Parish	Cadastre
<b>Form A:</b> <b>Licensed:</b> CUMBERLAND	CONCORD	Whole Lot //

**Region:** 10 - Sydney South Coast

**CMA Map:**
**River Basin:** - Unknown

**Grid Zone:**
**Scale:**
**Area/District:**
**Elevation:** 0.00 m (A.H.D.)

**Northing:** 6252682.0

**Latitude:** 33°51'04.3"S

**Elevation Unknown**
**Easting:** 322272.0

**Longitude:** 151°04'44.2"E

**Source:**
**GS Map:** -

**MGA Zone:** 0

**Coordinate Source:** Unknown

### Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1		Hole	Hole	0.00	4.00	0			Unknown
1	1	Casing	P.V.C.	0.00	0.00	50			

### Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
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### Geologists Log

### Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
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## Remarks

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01/01/1996: Form A Remarks:  
DATA FROM AG APPLICATION ONLY

**\*\*\* End of GW102558 \*\*\***

Warning To Clients: This raw data has been supplied to the NSW Office of Water by drillers, licensees and other sources. The NOW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

# NSW Office of Water

## Work Summary

### GW102550

Licence: 10BL157703

Licence Status: ACTIVE

Authorised MONITORING BORE  
Purpose(s):  
Intended Purpose(s): MONITORING BORE

Work Type: Bore

Work Status:

Construct.Method:

Owner Type:

Commenced Date:

Completion Date: 01/01/1996

Final Depth: 4.00 m

Drilled Depth:

Contractor Name: Macquarie Drilling

Driller:

Assistant Driller:

Property: N/A  
GWMA: -  
GW Zone: -

Standing Water Level: 1.800  
Salinity:  
Yield:

### Site Details

Site Chosen By:

County	Parish	Cadastre
Form A: Licensed: CUMBERLAND	CONCORD	Whole Lot //

Region: 10 - Sydney South Coast

CMA Map:

River Basin: - Unknown

Grid Zone:

Scale:

Area/District:

Elevation: 0.00 m (A.H.D.)

Northing: 6253109.0

Latitude: 33°50'50.3"S

Elevation Unknown

Easting: 322033.0

Longitude: 151°04'35.2"E

Source:

GS Map: -

MGA Zone: 0

Coordinate Unknown  
Source:

### Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1		Hole	Hole	0.00	4.00	0			Unknown
1	1	Casing	P.V.C.	0.00	0.00	50			

### Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
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### Geologists Log

### Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
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## Remarks

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01/01/1996: Form A Remarks:  
DATA FROM AG APPLICATION ONLY

**\*\*\* End of GW102550 \*\*\***

Warning To Clients: This raw data has been supplied to the NSW Office of Water by drillers, licensees and other sources. The NOW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

# NSW Office of Water

## Work Summary

### GW102561

Licence: 10BL157703

Licence Status: ACTIVE

**Authorised Purpose(s):** MONITORING BORE  
**Intended Purpose(s):** MONITORING BORE

**Work Type:** Bore**Work Status:****Construct.Method:****Owner Type:****Commenced Date:**

Completion Date: 01/01/1996

**Final Depth:** 4.00 m**Drilled Depth:****Contractor Name:** Macquarie Drilling**Driller:****Assistant Driller:**

**Property:** N/A  
**GWMA:** -  
**GW Zone:** -

**Standing Water Level:** 1.830  
**Salinity:**  
**Yield:**

### Site Details

**Site Chosen By:**

County	Parish	Cadastre
<b>Form A:</b> <b>Licensed:</b> CUMBERLAND	CONCORD	Whole Lot //

**Region:** 10 - Sydney South Coast**CMA Map:****River Basin:** - Unknown**Grid Zone:****Scale:****Area/District:****Elevation:** 0.00 m (A.H.D.)**Northing:** 6252741.0**Latitude:** 33°51'02.3"S**Elevation:** Unknown**Easting:** 322117.0**Longitude:** 151°04'38.2"E**Source:****GS Map:** -**MGA Zone:** 0

**Coordinate:** Unknown  
**Source:**

### Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1		Hole	Hole	0.00	4.00	0			Unknown
1	1	Casing	P.V.C.	0.00	0.00	50			

### Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
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### Geologists Log

### Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
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## Remarks

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01/01/1996: Form A Remarks:  
DATA FROM AG APPLICATION ONLY

**\*\*\* End of GW102561 \*\*\***

Warning To Clients: This raw data has been supplied to the NSW Office of Water by drillers, licensees and other sources. The NOW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

# NSW Office of Water

## Work Summary

### GW102562

Licence: 10BL157703

Licence Status: ACTIVE

Authorised MONITORING BORE  
Purpose(s):  
Intended Purpose(s): MONITORING BORE

Work Type: Bore

Work Status:

Construct.Method:

Owner Type:

Commenced Date:

Completion Date: 01/01/1996

Final Depth: 4.00 m

Drilled Depth:

Contractor Name: Macquarie Drilling

Driller:

Assistant Driller:

Property: N/A

GWMA: -

GW Zone: -

Standing Water Level: 1.830

Salinity:

Yield:

## Site Details

Site Chosen By:

County	Parish	Cadastre
Form A: Licensed: CUMBERLAND	CONCORD	Whole Lot //

Region: 10 - Sydney South Coast

CMA Map:

River Basin: - Unknown

Grid Zone:

Scale:

Area/District:

Elevation: 0.00 m (A.H.D.)

Northing: 6252830.0

Latitude: 33°50'59.3"S

Elevation Unknown

Easting: 321935.0

Longitude: 151°04'31.2"E

Source:

GS Map: -

MGA Zone: 0

Coordinate Unknown

Source:

## Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1		Hole	Hole	0.00	4.00	0			Unknown
1	1	Casing	P.V.C.	0.00	0.00	50			

## Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
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## Geologists Log

## Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
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## Remarks

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01/01/1996: Form A Remarks:  
DATA FROM AG APPLICATION ONLY

**\*\*\* End of GW102562 \*\*\***

Warning To Clients: This raw data has been supplied to the NSW Office of Water by drillers, licensees and other sources. The NOW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

# NSW Office of Water

## Work Summary

**GW102562**
**Licence:** 10BL157703

**Licence Status:** ACTIVE

**Authorised Purpose(s):** MONITORING BORE  
**Intended Purpose(s):** MONITORING BORE

**Work Type:** Bore

**Work Status:**
**Construct.Method:**
**Owner Type:**
**Commenced Date:**
**Completion Date:** 01/01/1996

**Final Depth:** 4.00 m

**Drilled Depth:**
**Contractor Name:** Macquarie Drilling

**Driller:**
**Assistant Driller:**
**Property:** N/A  
**GWMA:** -  
**GW Zone:** -

**Standing Water Level:** 1.830  
**Salinity:**  
**Yield:**

### Site Details

**Site Chosen By:**

County	Parish	Cadastre
<b>Form A:</b> <b>Licensed:</b> CUMBERLAND	CONCORD	Whole Lot //

**Region:** 10 - Sydney South Coast

**CMA Map:**
**River Basin:** - Unknown

**Grid Zone:**
**Scale:**
**Area/District:**
**Elevation:** 0.00 m (A.H.D.)

**Northing:** 6252830.0

**Latitude:** 33°50'59.3"S

**Elevation:** Unknown

**Easting:** 321935.0

**Longitude:** 151°04'31.2"E

**Source:**
**GS Map:** -

**MGA Zone:** 0

**Coordinate Source:** Unknown

### Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1		Hole	Hole	0.00	4.00	0			Unknown
1	1	Casing	P.V.C.	0.00	0.00	50			

### Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
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### Geologists Log

### Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
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## Remarks

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01/01/1996: Form A Remarks:  
DATA FROM AG APPLICATION ONLY

**\*\*\* End of GW102562 \*\*\***

Warning To Clients: This raw data has been supplied to the NSW Office of Water by drillers, licensees and other sources. The NOW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

# NSW Office of Water

## Work Summary

**GW102645**
**Licence:** 10BL150044

**Licence Status:** ACTIVE

**Authorised Purpose(s):** MONITORING BORE  
**Intended Purpose(s):** MONITORING BORE

**Work Type:** Bore

**Work Status:**
**Construct.Method:**
**Owner Type:**
**Commenced Date:**
**Completion Date:** 21/05/1992

**Final Depth:** 10.00 m

**Drilled Depth:** 10.00 m

**Contractor Name:** DJ DOUGLAS

**Driller:**
**Assistant Driller:**
**Property:** N/A NSW  
**GWMA:** -  
**GW Zone:** -

**Standing Water Level:**  
**Salinity:**  
**Yield:**

### Site Details

**Site Chosen By:**

County	Parish	Cadastre
<b>Form A:</b> <b>Licensed:</b> CUMBERLAND	LIBERTY PLAINS	Whole Lot 121//11427

**Region:** 10 - Sydney South Coast

**CMA Map:**
**River Basin:** - Unknown

**Grid Zone:**
**Scale:**
**Area/District:**
**Elevation:** 0.00 m (A.H.D.)

**Elevation Unknown**
**Source:**
**Northing:** 6251735.0

**Easting:** 321082.0

**Latitude:** 33°51'34.3"S

**Longitude:** 151°03'57.2"E

**GS Map:** -

**MGA Zone:** 0

**Coordinate Source:** GIS - Geographic Information System

### Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1		Annulus	Waterworn/Rounded	6.50	10.00				Graded
1	1	Casing	Pvc Class 18	0.00	9.50	65			Seated on Bottom, Screwed
1	1	Opening	Slots - Vertical	6.50	9.50	65		1	Sawn, PVC Class 18, SL: 3.0mm, A: 1.00mm

### Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
0.00	0.00	0.00	Unknown	7.30					

## Geologists Log Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
0.00	5.00	5.00	SHALE WEATHERED	Shale	
5.00	10.00	5.00	SHALE	Shale	

## Remarks

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\*\*\* End of GW102645 \*\*\*

Warning To Clients: This raw data has been supplied to the NSW Office of Water by drillers, licensees and other sources. The NOW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

# NSW Office of Water

## Work Summary

**GW111341**
**Licence:** 10BL604349

**Licence Status:** ACTIVE

**Authorised Purpose(s):** MONITORING BORE  
**Intended Purpose(s):** MONITORING BORE

**Work Type:** Bore  
**Work Status:** Equipped  
**Construct.Method:** Auger - Solid Flight  
**Owner Type:** Other Govt

**Commenced Date:**  
**Completion Date:** 06/11/2010

**Final Depth:** 8.00 m  
**Drilled Depth:** 8.00 m

**Contractor Name:**  
**Driller:** Daniel Giles Fox  
**Assistant Driller:**
**Property:** SYDNEY WATER 4 HERB  
 ELLIOTT AVENUE HOMEBUSH  
 BAY 2127 NSW

**Standing Water Level:**
**GWMA:**  
**GW Zone:**
**Salinity:**  
**Yield:**

### Site Details

**Site Chosen By:**
**County:** CUMBE  
**Parish:** CUMBE.13  
**Cadastre:** 52 747909  
**Form A:** CUMBE  
**Licensed:**
**Region:** 10 - Sydney South Coast

**CMA Map:**
**River Basin:** - Unknown  
**Area/District:**
**Grid Zone:**
**Scale:**
**Elevation:** 0.00 m (A.H.D.)  
**Elevation Unknown**  
**Source:**
**Northing:** 6253031.0  
**Easting:** 321544.0

**Latitude:** 33°50'52.6"S  
**Longitude:** 151°04'16.1"E

**GS Map:** -

**MGA Zone:** 0

**Coordinate Unknown**  
**Source:**

### Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1		Hole	Hole	0.00	8.00	100			Auger - Solid Flight
1		Annulus	Crushed Aggregate	3.50	8.00	100	50		Graded, Q:40.000m3
1	1	Casing	Pvc Class 12	0.00	5.00	50	40		Seated on Bottom
1	1	Opening	Slots	5.00	8.00	50	40	1	Casing - Machine Slotted, PVC Class 12, Screwed, A: 1.00mm

### Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
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## Geologists Log Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
0.00	0.20	0.20	BITUMEN	Fill	
0.20	0.40	0.20	GRAVELLY ROAD BASE,GREY/BROWN	Fill	
0.40	0.60	0.20	CLAY BROWN,GRAVELS MOIST	Clay	
0.60	8.00	7.40	SHALE BROWN,HARD,DRY	Shale	

## Remarks

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\*\*\* End of GW111341 \*\*\*

**Warning To Clients:** This raw data has been supplied to the NSW Office of Water by drillers, licensees and other sources. The NOW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

# NSW Office of Water

## Work Summary

**GW111342**
**Licence:** 10BL604349

**Licence Status:** ACTIVE

**Authorised Purpose(s):** MONITORING BORE  
**Intended Purpose(s):** MONITORING BORE

**Work Type:** Bore  
**Work Status:** Equipped  
**Construct.Method:** Auger - Solid Flight  
**Owner Type:** Other Govt

**Commenced Date:**  
**Completion Date:** 06/11/2010

**Final Depth:** 8.00 m  
**Drilled Depth:** 8.00 m

**Contractor Name:**
**Driller:** Daniel Giles Fox

**Assistant Driller:** David Mangnall

**Property:** SYDNEY WATER 4 HERB  
 ELLIOTT AVENUE HOMEBUSH  
 BAY 2127 NSW

**Standing Water Level:**
**GWMA:**  
**GW Zone:**
**Salinity:**  
**Yield:**

### Site Details

**Site Chosen By:**

<b>County</b>	<b>Parish</b>	<b>Cadastre</b>
<b>Form A:</b> CUMBE	CUMBE.13	52//747909
<b>Licensed:</b>		

**Region:** 10 - Sydney South Coast

**CMA Map:**
**River Basin:** - Unknown  
**Area/District:**
**Grid Zone:**
**Scale:**
**Elevation:** 0.00 m (A.H.D.)  
**Elevation Unknown**  
**Source:**
**Northing:** 6253037.0  
**Easting:** 321547.0

**Latitude:** 33°50'52.4"S  
**Longitude:** 151°04'16.2"E

**GS Map:** -

**MGA Zone:** 0

**Coordinate Unknown**  
**Source:**

### Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1		Hole	Hole	0.00	8.00	100			Auger - Solid Flight
1		Annulus	Crushed Aggregate	3.50	8.00				Graded
1	1	Casing	Pvc Class 12	0.00	5.00	50	40		Seated on Bottom, Screwed
1	1	Opening	Slots - Horizontal	5.00	8.00	50		1	Casing - Machine Slotted, PVC Class 12, Screwed, A: 1.00mm

### Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
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## Geologists Log Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
0.00	0.20	0.20	BITUMEN	Fill	
0.20	0.40	0.20	GRAVELLY ROAD BASE, GREY BROWN, MOIST	Fill	
0.40	0.60	0.20	CLAY BROWN, ANGULAR GRAVELS, MOIST	Clay	
0.60	8.00	7.40	SHALE BROWN, HARD, DRY	Shale	

## Remarks

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\*\*\* End of GW111342 \*\*\*

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**APPENDIX C – DATA SUMMARY TABLE**

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HSL: 0.5; ESL: 50

HSL: 1.60; ESL: 85

HSL: 55; ESL: 70

HSL: 40; ESL: 105

3

C6-C10  
HSL: 4.5; ESL: 180,  
ML: 700

>C10-C16  
HSL: 110; ESL: 120,  
ML: 1,000

>C16-C34  
HSL: NL; ESL: 300,  
ML: 2,500

>C34-C40  
HSL: NL; ESL: 2,800,  
ML: 10,000

HIL: 4; ESL: 0.7


Sample ID	Depth (m)	Date	Chemical Report	Soil Description	BTEX - Sandy soils					TRH - Sandy soils				PAH
					Benz	Toluen	EthylBe	Xylene	Naph	F1	F2	F3	F4	BaP TEQ
BH1	1.0	25/01/2016	SE148426		n.d	n.d	n.d	n.d	0.1	n.d	n.d	n.d	n.d	0.3
BH1	4.0	25/01/2016	SE148426		n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	0.3
BH2	2.0	25/01/2016	SE148426		n.d	n.d	n.d	n.d	n.d	n.d	n.d	120	n.d	n.d
BH2	4.0	25/01/2016	SE148426		n.d	n.d	0.1	n.d	0.1	n.d	n.d	660	n.d	0.8
BH3	2.0	25/01/2016	SE148426		n.d	n.d	n.d	n.d	n.d	n.d	n.d	140	n.d	2.3
BH3	6.0	25/01/2016	SE148426		n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d
BH4	1.0	25/01/2016	SE148426		n.d	n.d	n.d	n.d	n.d	n.d	n.d	130	n.d	0.7
BH4	2.6	25/01/2016	SE148426		n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d
BH4	5.8	25/01/2016	SE148426		n.d	n.d	n.d	n.d	0.2	n.d	27	800	190	0.3
BH5	1.0	25/01/2016	SE148426		n.d	n.d	n.d	n.d	0.7	n.d	n.d	160	n.d	0.9
BH5	5.5	25/01/2016	SE148426		n.d	n.d	0.1	n.d	4.2	n.d	n.d	n.d	n.d	n.d
BH6	1.0	25/01/2016	SE148426		n.d	n.d	n.d	n.d	0.4	n.d	n.d	140	n.d	0.4
BH6	2.8	25/01/2016	SE148426		n.d	n.d	n.d	n.d	0.4	n.d	n.d	170	n.d	0.5
BH7	0.5	25/01/2016	SE148426		n.d	n.d	n.d	n.d	0.6	n.d	n.d	n.d	n.d	0.3
BH7	3.0	25/01/2016	SE148426		n.d	n.d	n.d	n.d	0.2	n.d	n.d	n.d	n.d	n.d
BH7	5.9	25/01/2016	SE148426		n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d
BH8	2.0	25/01/2016	SE148426		n.d	n.d	n.d	n.d	n.d	n.d	n.d	170	n.d	2.6
BH8	5.0	25/01/2016	SE148426		n.d	n.d	n.d	n.d	n.d	n.d	87	1100	n.d	n.d
<b>INTRA-LABORATORY DUPLICATES</b>														
BH3-2.0-A	2.00	25/01/2016	SE148426		n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	1.1
BH5-5.5A	5.50	25/01/2016	SE148426		0.2	0.6	2.0	1.5	72	26	410	1000	n.d	4.4
BH6-1.0A	1.00	25/01/2016	SE148426		n.d	n.d	n.d	n.d	0	n.d	n.d	n.d	n.d	0.2
BH7-0.5A	0.50	25/01/2016	SE148426		n.d	n.d	n.d	n.d	1	n.d	n.d	110	n.d	0.2
<b>STATISTICAL ANALYSIS</b>														
Min					NA	NA	0.10	NA	0.1	NA	27.0	120.0	190.0	0.3
Max					NA	NA	0.10	NA	4.2	NA	87.0	1100.0	190.0	2.6
Avg					NA	NA	0.10	NA	0.8	NA	57.0	359.0	190.0	0.9
Stdev					NA	NA	0.00	NA	1.3	NA	42.4	357.6	NA	0.8
95% UCL					NA	NA	0.06	NA	NA	NA	NA	345.0	NA	1.3

\* Depth relates to Depth Below Surface Level

-- Not Tested

nd = Not Detected Above Laboratory LOR

RED = Exceeds HIL Criteria

 DLA Environmental Services A Pacific Environment company				400	DDT+DDD+DDE 600	Aldrin+Dieldrin 10	Chlordane 90	Endosulfan 400	Endrin 20	Heptachlor 10	HCB 15	Methoxychlor 500	1	500	150	500	30,000	1,200	120	1,200	60,000		
Sample ID	Depth (m)	Date	Chemical Report	PAH		Pesticides										Heavy Metals							
				Total	OC	OP	PCB	As	Cd	Cr VI	Cu	Pb	Hg	Ni	Zn								
BH1	1.0	25/01/2016	SE148426	1.5	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	5	0.3	14	27	35	0.03	20	74	
BH1	4.0	25/01/2016	SE148426	2.3	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	7	n.d	6	23	18	<0.01	5	25	
BH2	2.0	25/01/2016	SE148426	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	12	n.d	25	39	39	0.03	17	110	
BH2	4.0	25/01/2016	SE148426	8.5	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	9	0.5	17	45	52	0.06	15	140	
BH3	2.0	25/01/2016	SE148426	23.0	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	5	n.d	10	29	100	0.04	4	50	
BH3	6.0	25/01/2016	SE148426	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	5	n.d	4	28	15	0.02	10	96	
BH4	1.0	25/01/2016	SE148426	5.0	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	5	n.d	11	29	30	0.03	19	58	
BH4	2.6	25/01/2016	SE148426	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	10	n.d	31	37	55	0.02	27	85	
BH4	5.8	25/01/2016	SE148426	2.8	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	10	1.4	28	110	260	0.03	9	1700	
BH5	1.0	25/01/2016	SE148426	10.0	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	4	n.d	11	31	28	0.06	27	55	
BH5	5.5	25/01/2016	SE148426	2.2	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	<3	n.d	2	19	10	0.03	2	16	
BH6	1.0	25/01/2016	SE148426	2.6	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	4	n.d	11	33	27	0.05	31	75	
BH6	2.8	25/01/2016	SE148426	4.1	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	10	0.5	16	55	31	0.01	17	69	
BH7	0.5	25/01/2016	SE148426	3.2	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	4	n.d	10	32	24	0.02	22	58	
BH7	3.0	25/01/2016	SE148426	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	7	0.4	13	28	22	0.05	28	120	
BH7	5.9	25/01/2016	SE148426	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	3	n.d	4	18	15	<0.01	2	17	
BH8	2.0	25/01/2016	SE148426	27.0	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	4	n.d	7	22	17	0.02	16	56	
BH8	5.0	25/01/2016	SE148426	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	13	0.6	26	58	33	0.06	5	160	
<b>INTRA-LABORATORY DUPLICATES</b>																							
BH3-2.0-A	2.00	25/01/2016	SE148426	15.0	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	6	n.d	15	24	39	0.04	2	28	
BH5-5.5A	5.50	25/01/2016	SE148426	180.0	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	7	0.5	11	34	72	0.02	7	89	
BH6-1.0A	1.00	25/01/2016	SE148426	1.9	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	7	0.3	13	35	33	0.03	35	68	
BH7-0.5A	0.50	25/01/2016	SE148426	4.5	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	4	0.4	12	43	29	0.03	34	61	
<b>STATISTICAL ANALYSIS</b>																							
Min				1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.0	0.3	2.1	18.0	10.0	0.01	2.0	16.0	
Max				27.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13.0	1.4	31.0	110.0	260.0	0.1	31.0	1700.0	
Avg				7.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.9	0.6	13.7	36.8	45.1	0.0	15.2	164.7	
Stdev				8.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.2	0.4	8.7	21.3	57.5	0.0	9.6	385.2	
95% UCL				12.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.2	0.9	17.2	45.5	68.6	0.04	19.2	322.6	
* Depth relates to Depth Below Surface Level      -- Not Tested      * Depth relates to Depth Below Surface Level      -- Not Tested      nd = Not Detected Above Laboratory LDR      NL = Not Limiting      Bold = Detected Above Laboratory LOR      RED = Exceeds HIL Criteria																							



PREVIOUS SOIL ANALYTICAL RESULTS SUMMARY TABLE

Sample ID	Depth (m)	Date	NSW EPA Service Station Guidelines* 1000											NSW EPA Service Station Guidelines* 1000										
			BTEX				TPH				PAH		Phenols	Pesticides		Heavy Metals								
			Benz	Toluene	EthylBe	Xylene	C6-C9	C10-C14	C15-C28	C29-C36	C10-C36	BaP TEQ		Total	Total	OCF	PCB	As	Cd	Cr VI	Cu	Pb	Hg	Ni
URS Environmental & Geotechnical Investigation - Site 9, Sydney Olympic Park 3 December 2002																								
BH111_4.5	4.5	11-Nov-02	<0.2	<0.2	<0.2	<0.2	<2	96	497	214	807	0.3	1.3	--	--	--	10	11	39	102	222	0.2	13	1390
BH111_7.5	7.5	11-Nov-02	<b>0.8</b>	<b>94.1</b>	<b>78.8</b>	<b>59.2</b>	<b>381</b>	<b>1,940</b>	<b>5,500</b>	<b>3,220</b>	<b>10,660</b>	<b>2.9</b>	<b>51.2</b>	--	--	--	10	7	54	111	363	0.3	21	1910
BH112_6.0	6.0	11-Nov-02	<b>0.4</b>	<b>0.7</b>	<b>1.3</b>	<b>4.2</b>	<b>267</b>	<b>588</b>	<b>12,600</b>	<b>2,130</b>	<b>15,318</b>	<b>0.3</b>	<b>10.3</b>	--	--	--	7	<1	32	22	49	0.2	3	2460
BH113_3.0	3.0	11-Nov-02	<0.2	<0.2	<0.2	<0.2	<2	<50	<100	<100	<250	0.3	ND	--	--	--	7	<1	11	31	26	0.2	17	69
BH114_7.5	7.5	11-Nov-02	<b>0.3</b>	<b>2.5</b>	<b>4.7</b>	<b>3.8</b>	<b>19</b>	<b>271</b>	<b>1,670</b>	<b>931</b>	<b>2,772</b>	<b>1.0</b>	<b>50.3</b>	--	--	--	6	<1	11	50	33	0.3	35	289
BH115_1.5	1.5	11-Nov-02	<0.2	<0.2	<0.2	<0.2	<2	<50	172	109	281	0.6	7.6	--	--	--	7	<1	16	41	38	0.2	32	118
BH116_6.0	6.0	11-Nov-02	<0.2	<b>1.8</b>	<b>14.7</b>	<b>44.3</b>	<b>159</b>	<b>165</b>	<b>941</b>	<b>341</b>	<b>1447</b>	<b>0.3</b>	<b>6.9</b>	--	--	--	7	1	203	87	892	0.5	23	1690
Douglas Partners Waste Classification Assessment Site 9, Cnr Sarah Durack & Olympic Boulevard Sydney Olympic Park, NSW																								
1-1.5	1.5	30-Apr-03	<0.5	<0.5	<0.5	<0.8	<20	<20	<50	<50	<120	0.4	5.0	--	--	--	4	<0.5	12	34	44	<0.05	10	43
1-3.0	3.0	30-Apr-03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6	<0.5	13	25	29	<0.05	13	79
1-4.5	4.5	30-Apr-03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7	<0.5	36	60	890	0.13	18	470
1-5.5	5.5	30-Apr-03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9	<0.5	34	59	410	0.11	17	430
2-1.5	2.2	29-Apr-03	<0.5	<0.5	<0.5	<0.8	<20	<20	<50	<50	<120	0.1	0.26	--	<0.1	--	4	<0.5	18	23	30	<0.05	28	57
2-4.5	4.5	29-Apr-03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6	<0.5	9	32	19	0.06	30	150
3-0.5	0.5	29-Apr-03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5	<0.5	17	33	32	<0.05	38	89
4-0.5	0.5	29-Apr-03	<0.5	<0.5	<0.5	<0.8	<20	<20	<50	<50	<120	0.1	0.43	--	<0.1	--	<3	<0.5	19	59	8	<0.05	57	76
4A-3.0	3.0	29-Apr-03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5	<0.5	20	39	27	<0.05	29	77
4A-3.5	3.5	29-Apr-03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6	<0.5	22	52	29	<0.05	24	120
4A-6.0	6.0	29-Apr-03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8	<0.5	6	37	11	<0.05	6	75
5-1.5	1.5	30-Apr-03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7	<0.5	36	390	18	0.06	100	340
5-3.0	3.0	30-Apr-03	<0.5	<0.5	<0.5	<0.5	<20	22	210	<50	232	0.1	1.3	<0.5	<0.1	<0.9	9	<0.5	35	44	140	0.05	6	140
5-3.5	3.5	30-Apr-03	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50	<120	0.1	0.24	0.5	<0.1	<b>7.1</b>	15	<0.5	42	24	18	0.20	11	59
5-6.0	6.0	30-Apr-03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8	<0.5	25	22	14	0.08	7	47
6A-0.5	0.5	30-Apr-03	<0.5	<0.5	<0.5	<0.8	<20	<20	<50	<50	<120	0.1	0.28	<0.5	<0.1	<0.9	<3	<0.5	21	48	12	<0.05	66	56
6A-1.5	1.5	30-Apr-03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8	<0.5	18	90	66	0.21	11	90
6A-3.0	3.0	30-Apr-03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	20	<0.5	17	35	350	0.06	16	200
6A-4.5	4.5	30-Apr-03	<0.5	<0.5	<0.5	<0.8	<20	<20	<50	<50	<120	2.3	27.0	<0.5	<0.1	<0.9	4	28	22	18	220	0.12	7	3100
6A-6.0	6.0	30-Apr-03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6	5.0	180	41	150	4.50	11	960
7-0.5	0.5	29-Apr-03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7	<0.5	19	40	150	0.20	12	120
7-1.5	1.5	29-Apr-03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3	<0.5	9	10	19	<0.05	3	11
7-3.0	3.0	29-Apr-03	<0.5	<0.5	<0.5	<0.8	<20	<20	<50	<50	<120	0.6	6.7	<0.5	<0.1	<0.9	7	<0.5	21	42	45	0.05	38	86
7-5.0	5.0	29-Apr-03	<b>65</b>	<b>520</b>	<b>180</b>	<b>150</b>	<b>1,300</b>	<b>8,800</b>	<b>26,000</b>	<b>6,600</b>	<b>41,400</b>	<b>46.9</b>	<b>2473</b>	15.0	<0.1	<0.9	5	<0.5	31	110	2700	0.08	9	170
7-6.5	6.5	29-Apr-03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5	<0.5	26	39	540	<0.05	6	97
8-0.5	0.5	29-Apr-03	<0.5	<0.5	<0.5	<0.8	<20	<20	<50	<50	<120	0.1	1.2	<0.1	<0.1	<0.9	6	<0.5	23	33	30	<0.05	20	63
8-1.5	1.5	29-Apr-03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	14	<0.5	82	58	48	<0.05	16	96
8-2.8	2.8	29-Apr-03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6	<0.5	23	44	46	<0.05	18	120
9-1.5	1.5	29-Apr-03	<0.5	<0.5	<0.5	<0.8	21	<20	<50	<50	<120	0.3	2.6	<0.5	<0.1	<0.9	8	<0.5	32	51	61	0.07	29	240
9-3.0	3.0	29-Apr-03	--	--	--	--	--	--	--	--	--	0.3	3.0	<0.5	<0.1	<0.9	7	<0.5	18	48	66	0.26	22	150
9-4.5	4.5	29-Apr-03	<0.5	<0.5	<0.5	<0.8	23	<20	<50	<50	<120	--	--	--	--	--	15	0.8	130	180	240	0.10	140	1100
10-1.5	1.5	29-Apr-03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6	<0.5	16	29	55	0.07	16	150
10-3.0	3.0	29-Apr-03	<0.5	<0.5	<0.5	<0.8	<20	<20	<50	<50	<120	3.4	45	--	--	--	8	<0.5	22	90	140	0.10	20	230

\* Depth relates to Depth Below Surface Level NL = Not Limiting Bold = Detected Above Laboratory LOR RED = Exceeds HIL Criteria

\* NSW EPA Service Station Guidelines 1994 - Superseded by NEM 2013 Amendment - TPH Fractions only reported  
 Located outside of Site boundary